

Bedin

Reel #804
Zhigalin, V.

ZHIGALIN, V.; BONAREV, N., red.; YAKOVLEVA, Ye., tekhn.red.

[Collectives of Moscow industrial enterprises in the struggle
for the seven-year plan] Kollektivy promyshlennykh predpriatii
Moskvy v bor'be za semiletku. Moskva, Mosk.rabochii, 1960. 35 p.
(MIRA 13:8)

1. Predsedatel' Moskovskogo gorodskogo sovnarkhoza (for Zhigalin).
(Moscow Province--Industries)

ZHIGALIN, V.P.; AFANAS'YEV, S.A.; GERASIMOV, K.M.

Everything for man. Zdorov'e 6 no.6:1-3 Je '60.

- (MIRA 13:7)
1. Predsedatel' Moskovskogo gorodskogo Soveta narodnogo khozyaystva (for Zhigalin).
 2. Predsedatel' Leningradskogo Soveta narodnogo khozyaystva (for Afanas'yev).
 3. Predsedatel' Gor'kovskogo Soveta narodnogo khozyaystva (for Gerasimov).
- (LENNINGRAD PROVINCE--MEDICAL SUPPLIES)
(INDUSTRIAL HYGIENE)

ZHIGALIN, V.F.

Superpower machines. Nauka i zhizn' 23 no.6:5-9 Je '56. (MLBA 9:9)

1. Zamestitel' ministra tyazhelogo mashinostroyeniya SSSR.
(Machinery industry)

CA
ZHIGALIN, Ya. L.

Selecting the maximum pressure in the absorption of divinyl. Zhigalin, Sintet. Kauchuk 4, No. 5, 22 9(1956). A detailed discussion, from the economic and tech. points of view, of divinyl absorption operations on a com. scale, as carried out in 3 Russian synthetic rubber plants, leads to the conclusion that an increase in the pressure in the absorbers from 2 to 5 atms. is much more advantageous from the economic point of view than from 5 to 6 atms., i.e., shows a ratio of 110:15. The absorption of divinyl with alc. by the Kremser method (C. A. 24, 6143, 3348) is cited. A. A. Bochtlingk

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZHIGALIN, Ya. [L]

PROCESSIES AND PROPERTIES .08

100 AND 97- C6280

3.

The removal of acetylene from generator slimes. Ya. Zhigalin. Caoutchouc and Rubber (U. S. S. R.) 1937, No. 4; 44-6.— C_2H_2 was removed from the lime milk under a pressure of 40 mm. at 40–50°. A 91% extn. can be obtained.
A. Prindl

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION
JAN 17 1948

RESEARCH REPORTS
RESEARCH REPORTS
RESEARCH REPORTS

BONDAROV, I.M.; ZHICALINA, L.I.

Hematocapirator. Lab. delo 6 no.5:54-55 8-0 '60. (MIRA 13:9)

1. Kafedra patologicheskoy fiziologii (zav. - prof. A.N. Gordiyenko)
Rostovskogo meditsinskogo instituta).
(ASPIRATORS) (BLOOD)

BONDAREV, I.M.; ZHIGALINA, L.I.

Densitometry with a logarithmically calibrated lens and EKP-4m. Lab.
delo 5 no.3:53-56 My-Je '59. (MIRA 12:6)

1. Iz kafedry patologicheskoy fiziologii (sav. - prof. A.N. Gordiyenko)
Rostovskogo meditsinskogo instituta.
(DENSITOMETERS)

USSR / General Problems of Pathology. Immunity. U

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102396.

Author : Zhigalina, L. I.

Inst : Rostov Medical Institute.

Title : Materials on the Influence of the Parasympathetic Part of the Nervous System on Factors of Immunity.

Orig Pub: Sb. tr. Rostovsk. med. in-ta, 1957, kn.1, 139-152.

Abstract: In rabbits immunized with a culture of *Bacillus coli*, when the titer of antibodies began to decrease, stimulation of the vagal nerve by a tetanic electric current of 5-7 ma was performed. The initial agglutinin titer is on the average 1:2900; after 5 min. of stimulation 1:6000; after 5 hours, 1:217 255. The titer of natural agglutinins did not change. The titer of hemolysins in correspondingly prepared rabbits is, on the average, 1:912;

Card 1/2

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USSR/General Problems of Pathology. Immunity.

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1968, No 60955

Author : Zhigalina, L. I.

Inst : Stalingrad Medical Institute

Title : The Effect of an Electric Stimulus of the Vagus Nerve on the Immunity Factors of Immunized Animals.

Orig Pub : Sb. nauchn. rabot toor. i klinich. kafedr. Stalingrad. med. in-ta. Stalingrad, 1968, 380-382

Abstract : Rabbits immunized with ram's erythrocytes or diphtheria anatoxin were subjected to stimulus of the Vagus nerve by electric current. The titer of hemolysins, 4 hours after the stimulus, had increased from 1:900 to 1:3300, and the titer of hemagglutination from 1:1900 to 1:42 600. In animals immunized with diphtheria anatoxin, the amount of AE increased on the sixth day from 0.111 to 0.883. The total

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USSR/General Problems of Pathology. Immunity.

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60955

amount of the γ proteins in the serum decreased, reaching a maximum (by 21%) on the 9th hour. Moreover, this decrease occurred at the expense of a decrease in albumen. On the 6th hour, the number of leukocytes increased from 7700 to 16 400 in one cubic millimeter, with a marked increase in the number of leukocytes with segmented nuclei, and the phagocyte count increased from 1.24 to 3.36. The immunizing property of the serum of rabbits inoculated with typhoid culture increased. Three hours following the stimulus of the Vagus nerve, the serum in a dilution of 1:40-1:100 preserved the mice from death.

Card 2/2

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USSR/General Problems of Pathology. Immunity.

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60956

Author : Zhigalina, L. I.

Inst : Stalingrad Medical Institute

Title : The Effect of a Stimulation of the Vagus Nerve on the Titer of Agglutinins of Immunized Animals.

Orig Pub : Sb. Nauchn. rabot teor. i Kafedr Stalingr. med. in-ta. Stalingrad, 1956, 385-387.

Abstract : Three weeks following immunization, an irritation of the vagus nerve by electric current (B.N.; 5-7 ma, duration of the impulse 0.0015 seconds) for 3 to 6 hours, caused in rabbits an increase of the titer of specific agglutinins, while the titer of normal antibodies did not change. A stimulation of the peripheral stump of the Vagus nerve caused an increase of the titer of specific agglutinins, which was not observed in atropinized rabbits.

Card 1/1

USSR/General Problems of Pathology, Immunity.

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60954

Author : Zhigalina, L. L.

Inst : Rostov-on-the-Don Medical Institute

Title : The Number of Leukocytes, Their Formula and Phagocyte Indicator when the Vagus Nerve of Immunized Animals was Stimulated by Electric Current. (1958/minus 0.024). At the third hour of applied stimulus,

Orig Pub : Tr. Otech. nauchn. konferentsii (Rostovsk., n/D mod. in-ta) za 1958, Rostov-na-Donu, 1957, 83-84.

Abstract : The vagus nerve of rabbits immunized against typhoid was stimulated by electric current. Before the experiment, the number of leukocytes was 7781 plus/minus 484 in one cubic millimeter. After the first hour of applied stimulus, the amount of leukocytes was 10 815 plus/minus 639. At the end of the third hour, the number of leukocytes was 17 499 plus/

Card 1/2

GORDIYENKO, A.N., KISELEVA, V.I., SAAKOV, B.A., AZHIPA, Ya.I., TSYNKALOVSKIY,
R.B., LET'YEN, A.V., YEGOROV, A.I., BONDAREV, I.M., ZHIGALINA, L.I.

Further studies on the bioelectric potentials of ~~nerve~~ following
intracutaneous injection of antigens [with summary in English].
Biol. eksp. biol. i med. 45 no.4:96-99 Ap '58 (MIRA 11:5)

1. Iz kafedry patofiziologii (zav. - prof. A.N. Gordiyenko)
Rostovskogo meditsinskogo instituta (dir. - prof. Ye.M. Gubarev).
Predstavlena akademikom A.D. Speranskim.

(NERVE ENDINGS, physiology)

bioelectric potentials after intracutaneous inject.
of E.coli antigen (Rus))

(ESCHERICHIA COLI,

antigen intracutaneous inject. causing change in
bioelectric potentials of receptors (Rus))

ZHIGALINA. L. I. Cand Med Sci -- (diss) "Effect of electric stimulation of the
vagus nerve ^{up} on ~~the~~ immunity factors in immunized animals." Rostov-on-Don, 1957.
18 pp 20 cm. (Rostov State Med Inst), 200 copies. (KL, 13- 57, 100)

USSR/Medicine - Immunology

FD 14c

Card 1/1

Author : Zhigalina, L. I.

Title : The effect of stimulating the vagus nerve with an electric current on the titer of antibodies in immunized animals

Periodical : Zhur. mikrobiol. epid. i immun. 5, 11-13, May 1954

Abstract : Agglutination reactions were used to determine the titer of antibodies before and after the immunization of rabbits with Bacilli coli and during and a month after stimulation of the vagus nerves of the immunized animals with an electric current. It was determined that the titer of antibodies increased as a result of electric stimulation of the vagus nerves. Preliminary injections of atropine desensitized the vagus nerves and prevented the increase. The method of stimulation is described in detail. The results are presented on 2 graphs. The similar work of A. N. Gordenko* is mentioned, but no references are cited.

Institution : Laboratory of the Chair of Pathological Physiology (Head--Prof. A. N. Gordenko*) of the Rostov-on-Don Medical Institute

Submitted : January 24, 1953

GORDIYENKO, A.N.; KISELEVA, V.I.; SAAKOV, B.A.; TSYNKALOVSKIY, R.B.;
AZHIPA, Ya.I.; LET'YEN, A.V.; YEGOROV, A.I.; BONDAREV, I.M.;
ZHIGALIHA, L.I.

Reflex production of antibodies caused by antigen injection into an
isolated spleen [with summary in English]. Biul.eksp.biol. i med.
43 no.4:80-82 Ap '57. (MIRA 10:10)

1. Iz kafedry patofiziologii (zav. - prof. A.N.Gordiyenko) Rostov-
skogo meditsinskogo instituta. Predstavlena akademikom A.D.Speran-
skim.

(ANTIBODIES

form by reflex in system caused by antigen inject. into
isolated spleen in dogs)

(SPLEEN, physiol.

antibody form by reflex in system caused by antigen
inject. into isolated spleen in dogs)

GORDIYENKO, A.N., KISELEVA, V.I., SAAKOV, B.A., BONDAREV, I.M., ZHIGALINA, L.I.

Pharmacological analysis of the effect of antigens on receptors of the carotid sinus during reflex antibody production [with summary in English]. Biul. eksp. biol. i med. 44 no.11:72-75 N^o57

(MIRA 11:11)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. A.N. Gordiyenko) Rostovskogo gosudarstvennogo meditsinskogo instituta, Rostov-na-Donu. Predstavlena akademikom A.D. Speranskim.

(ANTIGEN ANTIBODY, REACTION,

eff. of antigens on carotid sinus during reflex antibody prod. (Rus))

(CAROTID SINUS,

eff. of antigens during reflex antibody prod. (Rus))

BONDAREV, I.M.; BUSLER, I.V.; ZHIGALINA, L.I.

Method of rapid preparation of electrophoregrams [with summary in English]. Biul.eksp.biol.med. 44 no.8:114-118 Ag '57. (MIRA 10:11)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. A.N.Gordiyenko) Rostovskogo meditsinskogo instituta. Predstavlena deystvitel'nyy chlenom AMN SSSR N.A.Rozhanskim.

(ELECTROPHORESIS,

rapid prep. of electrophoregram (Rus))

GORDIYENKO, A.N.; KISELEVA, V.I.; TSINKALOVSKIY, R.B.; SAAKOV, B.A.;
AZHIPA, Ya.I.; LET'YEN, A.V.; YEGOROV, A.I.; OCHELENKO, L.N.;
BONDAREV, I.M.; ZHIGALINA, L.I.

Electrophysiological analysis of the action of antigens on the
angioceptors. Biul. eksp. biol. i med. 49 no.2:90-94 F '60.

(MIRA 14:5)

1. Iz kafedry patofiziologii (zav. - prof. A.N.Gordiyenko)
Rostovskogo meditsinskogo instituta. Predstavlena akademikom
A.D.Speranskim.

(ANTIGENS AND ANTIBODIES) (CAROTID SINUS)
(ELECTROPHYSIOLOGY)

ZHIOALINA, Ye.K.

Readers' conference at the Bereзовskiy Mine. Gor. zhur. no.11:77.
N '61. (MIRA 15:2)

1. Zaveduyushchiy tekhnicheskoy bibliotekoy Bereзовского rudnika
Vostochno-Kazakhstanskogo sovnarkhoza.
(Bereзовskiy region (East Kazakhstan Province)--Mining engineering)

ZHIGALKINA, T.S.; CHERKESOV, A.I.

Titrimetric method for the determination of microgram quantities of vanadium. Zhur. anal. khim. 16 no. 4:505-507 J1-Ag '61.
(MIRA 14:7)

1. Saratov Pedagogical Institute and Astrakhan Technical Institute of Fish Industry and Economy.
(Vanadium--Analysis)

5(2)

AUTHORS:

Cherkesov, A. I., Zhigalkina, T. S.

SOV/32-25-4-8/71

TITLE:

Photometric Method for Determining Vanadium in Steels
(Fotometricheskiy metod opredeleniya vanadiya v stalyakh)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 406-408 (USSR)

ABSTRACT:

An accelerated photometric method is described for the vanadium determination in steels without previous separation of Fe, Ti, W, Mn, Co, Ni, Cu, and Cr. It is based on the oxidation of azo dyes by the vanadate in a medium combined with sulphuric acid. The two dyes (structural formulas are given) were obtained by a diazotization of the sulfanilic acids and naphthionic acids and a coupling with 2,3-oxinaphthoic acid. In the dissolution of one dye in 60% sulphuric acid a bright-red coloring arises the absorption spectrum of which is represented graphically (Fig 1, $\lambda_{\max} = 533 \text{ m}\mu$). The resulting compound of the azo dye and the acid has a halochromous character. By an addition of vanadate to the colored solution, the color intensity decreases proportional with the admixed quantity of vanadate. A calibration curve for the photometric vanadium determination is established according

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Photometric Method for Determining Vanadium in Steels SOV/32-25-4-8/71

to an ammonium-vanadate solution (Fig 2). In vanadium concentrations of 5-25 γ/ml the determination is not disturbed by Cu^{2+} , Cr^{3+} , Al^{3+} , Co^{2+} , Ni^{2+} , Ti^{4+} , NH_4^+ , Mn^{2+} , WO_4^{2-} and ions of the alkali metals. Fe^{3+} must be bound by phosphoric acid, MoO_4^{2-} , CrO_4^{2-} , Cl_2 , and other strong oxidizing agents disturb the determination. The course of analysis, the preparation of the dye, and analytic results of a vanadium determination in steel (Table) are indicated. There are 2 figures, 1 table, and 1 Soviet reference.

ASSOCIATION: Astrakhanskiy tekhnicheskii institut rybnoy promyshlennosti i khozyaystva (Astrakhan Technical Institute of Fishing Industry and Economy)

Card 2/2

ZHIGALKINA, T. S.

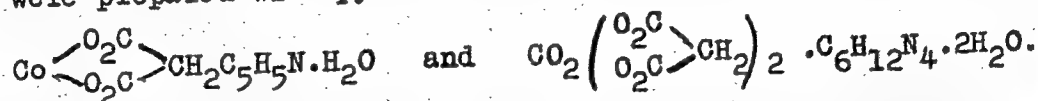
73-3-17/24

AUTHOR: Cherkesov, A. I., and Zhigalkina, T. S.

TITLE: Complexes of Co(II)-malonate with Organic Bases and Their Use in Analysis. (Kompleksy Kobal't (II)-malonata s Organicheskimi Osnovaniyami i ikh Analiticheskoye Primeneniye)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No. 3, pp. 381-383 (USSR).

ABSTRACT: The crystalline complex cobalt(II)-malonate (2 substances) were prepared with pyridine and urotropine:



The urotropine-containing complex can be used in qualitative analysis as well as for the gravimetric determination of cobalt. The malonate-pyridine complex of cobalt can be used for the macro- as well as for the micro-analysis of cobalt in the presence of large quantities of alkaline-, alkaline earth metal-, Cu^{2+} -, Cr^{3+} - and Mg^{2+} ions as well as in the presence of small quantities of Ni^{2+} and Al^{3+} . The malonate-urotropine complex of cobalt is most suitable as it is only slightly soluble in the reaction mixture.

Card 1/3 (0.011 ml(100 ml) and in water (1.03 ml/100 ml) at 20°C,

73-3-17/24

Complexes of Co(II)-malonate with Organic Bases and Their Use in Analysis.

whilst maintaining a stable water-content. The constant weight can be determined rapidly when drying the substance at 100°C. When heating the substance to 140°C a 3.2% loss in weight occurs, at temperatures exceeding 150°C decomposition is observed. Analytical data of both complexes are given. Values of weight determinations of cobalt in the form of its malonate-urotropine complex are tabulated. The cobalt content in the solution was determined by the gravimetric method (in the CoSO_4 -form). The cobalt was precipitated in the following way: To 5 ml of approx. 0.1 mole solution of the cobalt salt 1 - 1.3 ml of a 0.5 mole malonic acid solution is added as well as 10 ml of a 1-mole urotropine solution. This mixture is heated up to boiling temperature. The reddish precipitate $\text{Co}_2(\text{C}_3\text{H}_2\text{O}_4)_2 \cdot \text{C}_6\text{H}_{12}\text{N}_4 \cdot 2\text{H}_2\text{O}$ is allowed to settle for 3 hours, is filtered through a glass filter (No. 4); it is then washed with small quantities of cooled water (10 - 15 ml) and dried at 100°C to constant weight. The conversion factor is 0.2368. The precipitate of the complex can be burnt and the cobalt

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Complexes of Co(II)-malonate with Organic Bases and Their Use in
Analysis. 73-3-17/24

determined in the Co_3O_4 -form. There are 1 table and
4 references, 2 of which are Slavic.

SUBMITTED: March, 3, 1956.

ASSOCIATION: Astrakhan Technical Institute of Fishery Industry.
(Astrakhanskiy Tekhnicheskiy Institut Rybnoy Promyshlen-
nosti i Khozyaystva.)

AVAILABLE: Library of Congress.

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5.5300

2209, 1273, 1160

23595

S/075/61/016/003/006/007
B106/B208

AUTHORS: Cherkesov, A. I. and Zhigalkina, T. S.

TITLE: Photometric cerium determination

PERIODICAL: Zhurnal analiticheskoy khimii, v. 16, no. 3, 1961, 364-365

TEXT: One of the authors devised in a previous paper (Ref. 6; Cherkesov A. I., Dokl. na VIII Mendeleyevskom s"yezde po obshchey i prikl. khim. Sektsiya analit. khim. Izd-vo AN SSSR, M., 1958, str. 56) a quick photometric method of determining small cerium quantities without preceding separation of a number of accompanying elements. This method rests upon the redox reaction of tetravalent cerium with the halochromic compound of an azo dye with sulfuric acid. From among several azo dyes studied methyl orange and methyl red proved to be most suitable for this purpose. For the determination methyl orange has to be dissolved in 60% H_2SO_4 , methyl red in 80% H_2SO_4 ; the absorption maxima of these solutions lie at 496 m μ (methyl orange) and 533 m μ (methyl red). Both dyes practically give the same results. The authors give in the present paper an

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Photometric cerium determination

S/075/61/016/003/006/007
B106/B208

instruction for the determination of small cerium quantities by methyl red. By adding increasing quantities of a salt of tetravalent cerium to the sulfuric acid solution of methyl red the optical density of this solution decreases according to the equation $D_0 - D_C = KC$ (D_0 - optical density of the solution of the dye without cerium addition; D_C - optical density of the solution of the dye after addition of $C \mu\text{g}$ of cerium per ml of the solution; K - coefficient of proportionality). To draw the calibration curve, 0.0202 g $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$ was dissolved in 2 N H_2SO_4 to an end volume of 250 ml; 1 ml of this solution contains 28 μg of cerium. To prepare a 10^{-4} - $3 \cdot 10^{-4}$ M solution of methyl red the dye is dissolved in 80% (by volume) of chemically pure sulfuric acid. If the sulfuric acid contains oxidizable impurities, a 0.05 N KMnO_4 solution has previously to be added drop by drop until a pink color appears which remains constant for 3-5 sec. To draw the calibration curve, 3 ml each of the dye solution are put into 6 cuvettes. 1 ml of the cerium salt solution is added to the first cuvette, 1.5 ml to the second one, 2 ml to the third one, etc. No cerium salt solution is added to the 6th cuvette. All six cuvettes are then made up to

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Photometric cerium determination

7 ml with 2 N H_2SO_4 . The solutions are thoroughly mixed, and after 10-15 min the optical densities are measured. Table 1 shows the results obtained on the basis of which the calibration curve may be plotted. To determine the cerium, 3 ml of the dye solution are added to 1 ml of the solution to be examined. The solution is made up to 7 ml with 2 N H_2SO_4 , and thoroughly mixed. The optical density D_C is measured after 10-15 min. The content C of cerium in μg per ml of the measured solution is determined on the basis of the calibration curve from the difference $D_0 - D_C$ (D_0 being known). The ions Ni^{2+} , Mn^{2+} , Zn^{2+} , Cd^{2+} , Mg^{2+} , Al^{3+} , Cr^{3+} , MoO_4^{2-} , UO_2^{2+} , Cu^{2+} , and Co^{2+} in amounts of 1,000 μg , and the ions Fe^{3+} , Cl^- , and NO_3^- in amounts of 50-100 μg do not interfere with the determination of 6 μg of cerium by the method described (Table 2). [Abstracter's note: Essentially complete translation.] There are 1 figure, 2 tables, and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

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Photometric cerium determination

S/075/61/016/003/006/007
B106/B208

ASSOCIATION: Saratovskiy gosudarstvennyy pedagogicheskiy institut
(Saratov State Pedagogic Institute). Astrakhanskiy
tekhnicheskiy institut rybnoy promyshlennosti i khozyaystva
(Astrakhan Technical Institute of Fish Industry and Fishery)

SUBMITTED: August 6, 1960

Table 1: Data for plotting the
calibration curve;

Legend: (1) - C in μg of Ce(IV)/ml.

D_o	D_c	$D_o - D_c$	① C $\mu\text{g}/\text{ml}$ CeIV
2,00	1,85	0,15	4
	1,70	0,30	6
	1,55	0,45	8
	1,35	0,65	10
	1,20	0,80	12

Table 1

CHERKESOV, A.I.; ZHIGALKINA, T.S.

Photometric determination of cerium. Zhur.anal.khim. 16 no.3:364-365
My-Je '61. (MIRA 14:6)

1. Saratov Pedagogical Institute and Astrakhan Technical Institute
of Fish Industry and Economy.
(Cerium—Analysis)

ALEKSANDROVICH MEL'NIKOVA, A.S.; ZHIGALKINA, T.S.

Trilonometric determination of copper and nickel with the help
of fumaric acid-pyridine precipitator. Trudy Astr. tekhn. inst.
ryb. prom. i khoz. no.8:89-96 '62. (MIRA 17:8)

CHERKESOV, A.I.; ZHIGALKINA, T.S.

Flourescence determination of beryllium in bronze. Zav. lab,
27 no.6:658-659 '61. (MIRA 14:6)

1. Saratovskiy pedagogicheskiy institut i Astrakhanskiy
tekhnicheskiy institut ~~premyshlennosti~~ premyslennosti i khozyaystva.
(Beryllium—Analysis) (Bronze)

CHERKESOV, A.I.; ZHIGALKINA, T.S.

3-oxy-2-naphthoic acid as a colorimetric and fluorescent reagent.
Trudy Astr. tekhn. inst. ryb. prom. i khoz. no.8:25-49 '62.

Study in the field of the analytic use of halochromism in azo
dyes. Ibid.:50-73 (MIRA 17:8)

ZHIGALKINA, T.S.; LEV, R.S.; CHIRKESOV, A.I.

Volumetric method for determining the microgram quantities
of chromium. Trudy Akad. tekhn. inst. ryb. prom. i khoz. no.2:
123-129 '62. (MIRA 17:8)

ZHIGALKO, N. I.

Using diaphragm strain pickups in measuring cutting forces.

Sbor.trud.Inst.mash.i avtom.AN BSSR no.1:109-116 '61.

(MIRA 16:5)

(Strain gauges)

(Metal cutting)

ZHIGALKO, N.I.; BUGAYEV, A.V.

Comparative investigations of cutting forces and cutting-tool
strength in machining 20KhNZA and 20KhNR steels. Sbor.trud.
Inst.mash.i avtom.AN BSSR no.1:78-94 '61. (MIRA 16:5)
(Metal cutting)

GADZHIYEV, A.S.; ZHIGAIKO, N.S.

New methods of including the duodenum in digestion after resection of the stomach. Khirurgiia no.3:65-69 '62. (MIRA 15:3)

1. Iz 3-y kafedry khirurgii (zav. -- prof. V.I. Kazanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Tsentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya (nach. -- zasluzhennyy vrach RSFSR V.N. Zakharchenko).
(STOMACH--SURGERY) (DUODENUM--TRANSPLANTATION)

09144-67 EWT(m)/EWP(t)/ETI IJP(a) JD/JG
ACC NR: AR6027496 SOURCE CODE: UR/0137/66/000/004/B015/B015

AUTHOR: Smelyanskiy, M. Ya.; Zolotov, B. V.; Taishevskiy, V. P.; Zhigalko, Ye. K.; Kuvaldin, A. B.

TITLE: Survey of work done by the "Electrothermal Installations" Department in the field of investigation and industrial application of the high-intensity electric arc

SOURCE: Ref. zh. Metallurgiya, Abs. 4B93

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 46, 1965, 36-42

TOPIC TAGS: electric arc, metal purification, refractory metal

ABSTRACT: Research has been in progress since 1961 in the "Electrical Installations" Department of Moscow Power Engineering Institute on the working process in installations for arc-heating of gases together with development of methods for designing installations suitable for industrial application. Investigations of the arc-heating process are described for gases with axial stabilization of the arc in a cylindrical channel and data are given on the effect which the type of working medium has on the electrical and power characteristics of the process. An installation is developed for producing refractory metals from their compounds. This installation was used for conducting experiments on carbothermic reduction of niobium in a plasma jet. Raw material in the form of niobium pentoxide and carbide pressed into a billet 6-8 mm in diameter

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UDC: 669.621.365.6:533.9

L 09144-67

ACC NR: AR6027496

was fed by the mechanism into a plasma jet at a rate of 2-4 cm/min. The carbon concentration in the reaction products was from 0.38 to 1.1% with a reduction to 0.14% after the second remelting, which shows that metallic Nb and Ta may be produced in ingots. 9 illustrations, bibliography of 11 titles. V. Pryanikova. [Translation of abstract]

SUB CODE: 11

Card 2/2 net

L 01485-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(π) WW/EM

ACCESSION NR: AR5019375

U1/0124/65/000/007/V010/V010

SOURCE: Ref. zh. Mekhanika, Abs. 7V66

AUTHOR: Zpigalko, Yu. P.; Gur'yanov, N.G.

TITLE: A thin, simply supported cylindrical shell with localized loading

CITED SOURCE: Sb. Itog. Nauchn. konforentsiya Kazansk. un-ta za 1963 g. Sekts. matem., kibernet. i teoriya veroyatn.; mekhan. Kazan', 1964, 133-134 III

TOPIC TAGS: cylindric shell structure, digital computer program, shell deformation, thin shell structure, shell theory

TRANSLATION: The authors discuss a closed cylindrical shell, simply supported at its ends and subjected to an external surface load localized over a rectangular area with sides parallel to the lines of curvature. It is assumed that the load vector at any given point is parallel to the vector of an internal normal at some fixed point with a radial coordinate situated in the interval $-\pi/2 + \varphi_0 < \varphi \leq \pi/2 - \varphi_0$. Here, $2\varphi_0$ is the dimensionless length of the loading area in a radial direction. The problem is solved in permutations. Initial equations are of the Donnell type. Stress components are expanded in double trigonometric series. Permutations are written in the form of

Card 1/2

L 01185-66

ACCESSION NR: AR5019375

analogous series with coefficients defined from the initial equations. Specific consideration is given to a case of vertical loading at a level assumed to be either constant or linearly distributed. Solutions for loads concentrated at a point and along lines of curvature are obtained by final transition. The results are programmed for calculation on a digital computer.

SUB CODE: AB, MA

ENCL: 00

Card 2/2 SP

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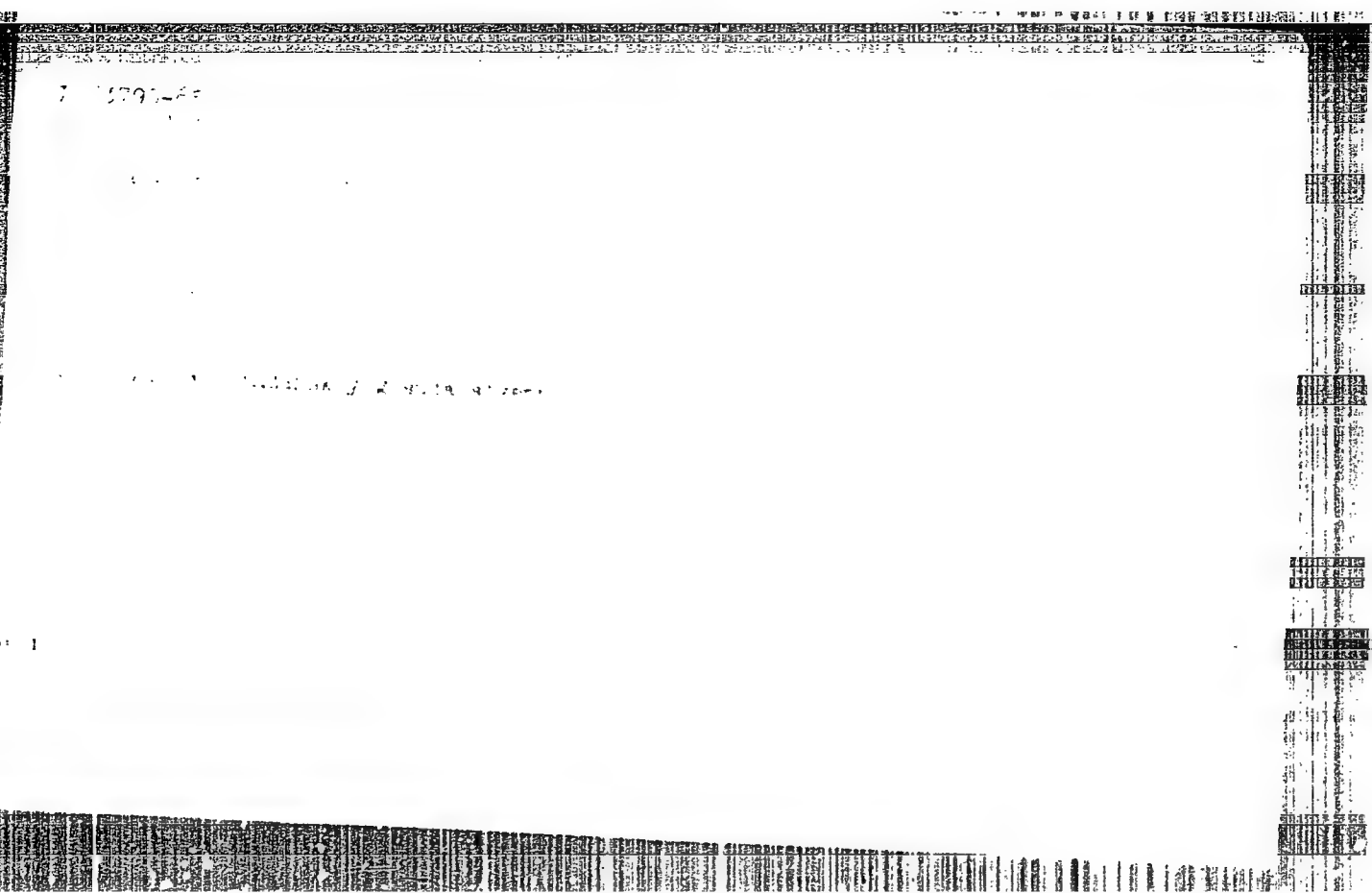
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ZHIGALKO, Yu. P. (Kazan')

Fundamental solution of the temperature problem for a circular
cylindrical shell. Prikl. mekh. 1 no. 4: 30-33 '65.

1. Kazanskiy gosudarstvennyy universitet.

(MIRA 18:6)

L 16881-65 EWT(d)/SWI(n)/ENP(v)/SWA(d)/ENP(v)/ENP(k)/ENP(n) 02-1/Feb 1987/1987
ACCESS. ON NR: AR4065235 1970/1987

SOUF Ref. zh. Mekhanika, Abs. 7/1/1

40. Zhigalko, Yu. P.

1111 The bending of thin plates

Load in the middle of the plate
values in an infinitely long plate
Card 112

1-44-44

ACCESSION NR: AR4046235

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Card 2/2

ZHIGALKO, Yu.P.

Derivation of asymptotic formulas corresponding to a
concentrated heating of a cylindrical shell. Prikl.
mekh. 1 no.10:124-126 '65. (MIRA 18:12)

1. Kazanskiy gosudarstvennyy universitet. Submitted July
9, 1965.

1-7011-66 EMT(m)/EPF(c)/EWP(j)/T RM
 ACC NR: AP5025839
 AUTHOR: Bobrovnikitskiy, V. S.; Zhigalkovich, V. F.; Petrov, L. K. 44.5
 SOURCE CODE: UR/0286/65/000/017/0134/0134 44.5
 ORG: none
 TITLE: A method for producing resin. Class 39, No. 151813/5 46
 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 134 03
 TOPIC TAGS: resin, ammonia, copper compound, chloride, polymer, polycondensation 44.5
 ABSTRACT: This Author's Certificate introduces a method for producing resin based on polycondensation of aniline and acetylene. The resin suitable for production of structural materials is produced by condensing this polycondensate with furfural in the presence of cuprous chloride or ammonia. 7
 SUB CODE: MT,CC/ SUBM DATE: 19Mar62/ ORIG REF: 000/ OTH REF: 000
 Card 1/1

ZHIGALOV, A.D.; GOL'DSHMIDT, V.G., assistant

Application of vibration in flax spinning. Tekst.prom. 25 no.2:43-
48 F '65. (MIRA 18:4)

1. Zaveduyushchiy kafedroy Kostromskogo tekhnologicheskogo instituta (for Zhigalov).
2. Kostromskiy tekhnologicheskiy institut (for Gol'dshmidt).

ZHIGALKOVICH, A.S., LEONOV, V.A., MERZHINSKY, V.M., LASTOVSKAYA, T.C.,
KILCHEVSKAYA, MA. SILYAYEVA, M.F. (USSR)

"Metabolic Processes in Relation to Suppression of Thyroid Gland
Function in Animals of Various Ages and at Different Times of the
Year."

Report presented at the 5th Int'l Biochemistry Congress,
Moscow, 10-16 Aug. 1961

ZHINOVICH, N.I.; ZHIGALKOVICH, V.F.

Making structural gypsum water-resistant. Sbor.nauch.trud.Bel.
politekhinst. no.87:66-75 '59. (MIRA 14:4)
(Gypsum)

ZHIGALKOVICH, V. F.

ZHIGALKOVICH, V. F.: "A study of the structural-mechanical properties of structural solutions." Inst. of Chemistry, Acad Sci Belorussian SSR. Minsk, 1956.
(Dissertation for the Degree of Candidate in Chemical Sciences.)

SO: Knizhnaya Letopis', No. 26, 1956

ZHIGALOV, A.

Improve standardisation at the grain storage and processing
plants. Sots.trud 4 no.2:100-105 P '59. (MIRA 12:4)
(Grain) (Production standards)

ZHIGALOV, A.

Current problems in organizing the work of mills in districts
where state grain milling has been developed. Muk.-elev.prom.
21 no.4:14-16 Ap '55. (MLRA 8:7)

1. Moskovskiy tekhnologicheskii institut pishchevoy promysh-
lennosti
(Grain milling)

ZHIGALOV, A.

Ways to improve administration in the cereal products industry.
Sots. trud 6 no. 2:59-62 F '61. (MIRA 14:2)
(Cereal products)

ZHIGALOV, A., kand.ekon.nauk; BORINEVICH, A., kand.ekon.nauk

Revise the order of planning the work of personnel at grain
receiving enterprises. Muk.-elev. prom. 26 no. 12:23-24
p '60. (MIRA 13:12)

1. Moskovskiy tekhnologicheskii institut pishchevoy
promyshlennosti.

(Grain elevators)

ZHIGALOV, A.

Means for increasing the production of feed mills. Muk.-elev.prom.22
no.6:16-18 Je '56. (MIRA 9:9)

1. Moskovskiy tekhnologicheskij institut pishchevoy promyshlennosti.
(Feed mills)

ZHIGALOV, A., kandidat ekonomicheskikh nauk.

Improve the planning of flour milling in farm mills. Muk.-elev.prom.
23 no.1:15-16 Ja '57. (MLRA 10:5)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Flour mills)

SHIGALOV, A. A. (Eng.)

- XXVI. "Automating Inspection of Parts of a Magnetic Circuit Relay," Automation and Mechanization of Production Processes in Instrument Manufacturing, Moscow, Mashgiz, 1958. 591 p.

PURPOSE: This book is intended for engineers, technicians, and scientific personnel concerned with mechanization and automation of production processes in instrument manufacturing, and for students and teachers of this subject in vuzes.

ZHIGALOV, A. A.

At N. Pechenkin, A. A. Zhigalov, V. A. Murav'yev, et al., Vnedreniye stakhanovskikh metodov truda na stroitel'stvo Moskovskogo Gosudarstvennogo universiteta imeni M. V. Lomonosova /Introduction of Stakhanovite Work Methods in the Construction of the Moscow State University imeni Lomonosov/ (from the series "Novatory stroitel'noy industrii" /Innovators of the Building Industry/), Press for Literature on Building and Architecture, 4 sheets, 15,000 copies

Describes the rational working procedures of stakhanovite stonemasons, stucco workers and facers, and the practice of mass introduction of the best working methods in the construction of the skyscraper of the Moscow State University imeni M. V. Lomonosov.

Brochure intended for workmen and engineering-technical personnel of construction jobs.

SO: U-6472, 23 Nov 1954

ZHIGALOV, A.D.

Drawing equipment with vibrating intermediate roll on machine for
wet wpinning of flax. Tekst. prom. 18 no.3:26-29 Mr '58.
(Spinning machinery) (Flax) (MIRA 11:3)

ZHIGALOV, A.N., dotsent, kand.ekonom.nauk

Problems of grain storage in the Democratic Republic of Vietnam.
Trudy MTIPP no.19:100-108 '62.

(MIRA 17:4)

Zhigalov, A.N.

ZHIGALOV, A.N., kand. ekon. nauk.

Aspects of state grain milling. Trudy MTIPP no.7:46-57 '57.
(Grain milling) (MIRA 10:12)

ZHIGALOV, A.N., kand. ekon. nauk; CHUKHAR'KO, Z.T., kand. ekon. nauk,
retsensent; LYUBUSHKIN, V.T., kand. tekhn. nauk, spetsred.;
FUKS, V.K., red.; KISINA, Ye.I., tekhn. red.

[Utilization of the capital assets of state-owned rural mills]
Ispol'zovanie osnovnykh fondov gosudarstvennykh sel'skokhoziaistven-
nykh mel'nits. Moskva, Pishchepromizdat, 1958. 122 p. (MIRA 11:8)
(Flour mills)

KALITA, Nikolay Yakovlevich; GRINBERG, A.I., retsenzent; BARABASH, M.M., retsenzent; ZHIGALOV, A.N., dotsent, kand. ekon. nauk, retsenzent; DOSNKOV, V.Ye., prof. spets. red.; NOZDRINA, V.A., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Establishing work norms in the meat and dairy industries]
Tekhnicheskoe normirovanie truda v miasnoi i molochnoi promyshlennosti. Moskva, Pishchepromizdat, 1962. 294 p.

(MIRA 16:3)

1. Starshiy inzhener Normativno-issledovatel'skoy laboratorii po trudu Kiyevskogo myasokombinata (for Barabash). 2. Nachal'nik otдела truda i zarabotnoy platy Kiyevskogo myasokombinata (for Grinberg).

(Meat industry—Production standards)

(Dairy industry—Production standards)

POKROVSKIY, Angelyar Aleksandrovich; ZHIGALOV, A.T., nauchnyy red.;
YAKOVLEVA, V.I., red.; TOKER, A.M., tekhn. red.

[Handbook for the young scraper, bulldozer, and grader
operator] Spravochnik molodogo skreperista, bul'dozerista,
greiderista. Moskva, Proftekhizdat, 1963. 159 p.

(MIRA 16:5)

(Earthmoving machinery)

ZHIGALOV, A.T., inzh.

Brush cutters with an active operating member. Stroi. 1 dor.
mashinostr. 4 no. 4:37-39 Ap '59. (MIRA 12:5)
(Clearing of land)

Excavating Machinery

Attachment D-245 for grader D-144 for digging troughs in widening the asphalt covered part of a road. A. N. Zhigalov., Mekh. stroi., 9, no. 2, 1952

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

ZHIGALOV, A.T., inzhener.

Vibrators for compacting soil. Mekh.stroi.11 no.10:17-21 0 '54.
(Road machinery) (MLRA 7:11)

ZHIGALOV, A.T., inzhener.

The D-347 all-purpose bulldozer. Mekh.stroi. 13 no.2:23-24 F '56.
(MLRA 9:5)

(Bulldozers)

ZHIGALOV, A.T.

Establishment of supporting stations on rural letter carrier's
delivery routes. Vest. svyazi 22 no.2:23 F '62. (MIRA 15:2)

1. Zamestitel' nachal'nika Kurskogo oblastnogo upravleniya svyazi. -
(Postal service)

ZHIGALOV, I.

Victor Chalikov's models. Vympel 11 no.5:21-22 Mr '48.
(MIRA 12:9)

(Ships--Models)

USSR / Soil Science. Physical and Chemical Properties J
of Soil.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 6069.

Author : Zhigalov, I. I.; Grishin, I. S.

Inst : Not given.

Title : Moisture Losses Due to Evaporation from a Snow
Covered Surface and from the Soil During the
Period of Snow-Thawing and the Flow of Thawed
Waters.

Orig Pub: Pochvovedeniye, 1957, No 12, 107-111.

Abstract: Moisture evaporation in Moskovskaya Oblast' from
a snow covered surface at snow-thawing time
amounts to 2-3 mm. as measured in the course
of 7 - 9 days. Evaporation from the surface of
frozen soil and the flow of thawed waters in the

Card 1/2

19

USSR / Soil Science. Physical and Chemical Properties J
of Soil.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 6069.

Abstract: same period amounts to 2-3 mm. Satisfactory results could not be obtained in calculating the overall moisture evaporation from a snow covered surface using the Assmann psychrometer (large size model) and the Fuss anemometer. -- S. A. Nikitin.

Card 2/2

ZHIGALOV, I.I., kand.tekhn.nauk

Losses of runoff resulting from snow water from drainage basins.
Meteor. i gidrol. no. 2:40-41 F '64, (MIRA 17:5)

ZHIGALOV, I.I.

[Slope runoff of melted snow and the influence of various factors;
dissertation offered for the degree of candidate of the technical
sciences] Sklonovyi stok talykh vod i vlianiia na nego razlichnykh
faktorov; dissertatsiia na soiskanie uchenoi stepeni kandidata
tekhnicheskikh nauk. Moskva, Akad. nauk SSSR, 1955, 331 p.

(Runoff)

(MIRA 11:11)

ZHIGALOV, I. I.

JIGALOV, I. I. [Zhigalov, I. I.]

Flow speed down the slopes of the rainfall or meltwater. Analele
geol geogr 16 no.1:141-143 Ja-Mr '62.

ZHIGALOV, I.I.

Velocity of the flow of rain and snow waters down a slope. Meteor. i
gidrol. no.7:26-28 JI '61. (MIRA 14:6)
(Runoff)

KARPOV, Vladimir Vasil'yevich, polkovnik, Geroy Sovetskogo Soyuz;
ZHIGALOV, I.M., red.; MASLOVA, N.Ya., tekhn. red.

[Regimental leading lights; sketches] Polkovye maiaki; ocher-
ki. Moskva, Voenizdat, 1962. 93 p. (MIRA 15:7)
(Russia--Army--Military life)

SHUL'GA, M.S. (g. Chernovtsy); SIDORYCHEVA, A.G.; SVIRIDOV, V.I.
(Rostov-na-Donu); SHEKHTERMAN, M.E. (g. Tiraspol');
ZHIGALOV, K.S. (pos. Bilimbay Sverdlovskoy oblasti); SERYAKOV, A.A.
(Murom); SAKEVICH, N.M. (Vitebsk); KAZANTSEV, I.I.

Readers suggestions. Fiz. v shkole 21 no.6:80-81 N-D '61.

(MIRA 14:12)

1. Turochakskaya srednyaya shkola Gorno-Altayskoy avtonomnoy
oblasti (for Kazantsev).

(Physics—Experiments)

ZHIGALOV, L.N., aspirant

Magnetic storms at Vostok Station between July 12 and 23, 1961.
Inform. biul. Sov. antark. eksp. no.33:42-43 '62. (MIRA 16:2)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

(Vostok Station, Antarctica--Magnetic storms--1961 (July))

AI7013726

SOURCE CODE: UR/3174/65/000/053/0027/0030

AUTHOR: Zhigalov, L. N. (Junior scientific worker)

ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut)

TITLE: Cyclic changes of magnetic disturbance at Mirnyy and Vostok Stations

SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955-. Informatsionnyy byulleten', no. 53, 1965, 27-30

TOPIC TAGS: solar activity, geomagnetism, solar corpuscular radiation, solar cycle, geophysic research facility

SUB CODE: 08,03

ABSTRACT: Available data on geomagnetic observations at Antarctic stations are inadequate for tracing the variation of magnetic activity for even one entire solar cycle but they make it possible to analyze the variation of activity at Mirnyy and Vostok in the years of the solar maximum and the years of decline of solar activity. This is a brief analysis of data for Mirnyy and Vostok for 1957-1963. The index of magnetic activity used was the hourly amplitude of the horizontal component in gammas. Maximum magnetic activity at Kheys Island in the Arctic and

Card 1/2

UDC: 919.9(047)

893.3 2 205

ACC NR: AT7013726

Mirnyy in Antarctica was observed in 1960, three years after the solar activity maximum. A completely different cyclic variation of magnetic activity was observed at Vostok station, where maximum disturbance was observed in 1958. The difference between the cyclic variation of magnetic activity at Vostok from the cyclic variation of Kp and the cyclic variation of activity at Mirnyy and its poor coincidence with the cyclic variation of solar activity during the considered period makes it possible to postulate that the magnetic activity in the immediate vicinity of the geomagnetic pole is caused not only by the corpuscular streams which are responsible for disturbances in the high polar latitudes, but by other particles as well. These particles apparently are ejected from the sun in the period of maximum solar activity and penetrate directly into the upper atmosphere in the region of the geomagnetic poles. It is entirely possible that such particles are low-energy electrons, whose maximum density is noted in periods of a maximum of solar activity. Orig. art. has: 2 figures. [JPRS: 34,593]

Card 2/2

3 2700-00 SWI(1)/PCC/EWA(D) GW

ACC NR: AT6009619 (N) SOURCE CODE: UR/2561/65/000/019/J045/0053

AUTHOR: Zhigalov, L. N.

ORG: none

TITLE: Magnetic activity in eastern Antarctic

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy Institut. Problemy Arktiki i Antarktiki, no. 19, 1965, 45-53

TOPIC TAGS: E layer, F layer, weather station, geomagnetism, ionosphere, geomagnetic disturbance

ABSTRACT: Measurement of magnetic activity made by Soviet Antarctic stations are summarized. Magnetic activity was recorded at Oasis, Mirnyy, Pionerskaya, Vostok, and Komsomol'skaya base stations and the Severnyy Polyus-7 drifting station in 1957 and 1958. Also included are observations made at Mirnyy and Vostok from 1956 to 1961. The Mirnyy, Oasis, Pionerskaya, and Komsomol'skaya stations reveal the presence of large daily maxima of magnetic activity and the presence of 3-4 daily intervals when the probability of irregular magnetic perturbation peak is increased. The distribution of magnetic disturbances recorded at the Mirnyy, Oasis, and Pionerskaya stations is typical of the zone of high latitude outflow. The daily curves of magnetic activity are identical in shape for the same geomagnetic latitudes in the eastern Antarctic and

UDC: 550.386 : 211.2

Card 1/2

ACC NR: AT6009619

western Arctic zones whereas the Pionerskaya and Severnyy Polyus stations in the eastern Arctic and Antarctic zones are distinctly different. It is concluded that magnetic disturbances in the polar region are a result of processes in the lower (E layer) and the upper (F_2 layer) layers of the ionosphere. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 08/

SUBM DATE: 12May64/

ORIG REF: 005/

OTH REF: 002

Card 2/2

ZHIGALOV, L.N., mladshiy nauchnyy sotrudnik

Cyclic variations of magnetic disturbance at Mirnyy and Vostok
Stations. Inform. biul. Sov. antark. eksp. no. 53:27-30
'65. (MIRA 18:12)

1. Arkticheskiy i antarkticheskiy nauch'no-issledovatel'skiy
institut. Submitted Sept. 29, 1964.

ZHIGALOV, L.N.

Magnetic activity in the eastern sector of Antarctica. Probl. Arkt.
i Antarkt. no.19:45-53 '65.
(MIRA 18:5)

ZHIGALOV, I.M., mladshiy nauchnyy sotrudnik

Distribution of auroras at Vostok Station in 1961. Inform.
biul. Sov. antark. eksp. no.36:26-27 '62. (MIRA 16:4)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

(Vostok Station, Antarctica—Auroras)

ZHIGALOV, L.N., mladshiy nauchnyy sotrudnik; NIZYAYEV, D.A., brigadir
mekhanikov

New feature of magnetic activity at Vostok Station. Inform. biul. Sov.
antark. eksp. no.37:38-39 '62. (MIRA 16:4)

1. Arkticheskiy i antarkkticheskiy nauchno-issledovatel'skiy institut.
(Vostok Station, Antarctica--Magnetism, Terrestrial)

ZHIGALOV, L.N.; ZHIGALOVA, N.N.

Magnetic disturbances in the area of Cape Shmidt and Uelen.
Trudy AANII 241 no.4:81-89 '62. (MIRA 15:8)
(Cape Shmidt—Magnetic storms) (Uelen region—Magnetic storms)

ZHIGALOV, I.N.; ZHIGALOVA, N.N.

Magnetic disturbances in the area of Cape Shmidt and Uelen.
Trudy AANII 241 no.4:81-89 '62. (MIRA 15:8)
(Cape Shmidt--Magnetic storms) (Uelen region--Magnetic storms)

ZHIGALOV, L.N.; ZHIGALOVA, N.N.

Distribution of magnetic activity in a narrow longitudinal
sector of the eastern Arctic. Geomag. i aer. 1 no.1:67-72
Ja-F '61. (MIRA 14:7)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

(Arctic regions—Magnetic storms)

20418

3/169/61/000/007/085/104

A006/A101

3.1410

AUTHORS: Moiseyev, B.S., Zhigalov, L.N.

TITLE: On the diurnal run of auroras polaris and magnetic activity on drifting stations SP-6 and SP-7 during 1957 - 1958

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 7, 1961, 34-35, abstract 70244 (V sb. "Issled. polarn. siyaniy, no. 4, Moscow, AN SSSR, 1960, 20-24, English summary)

TEXT: The authors present preliminary data on the diurnal run of auroras polaris on the basis of visual observations. Simultaneously observations were carried out of the magnetic field of the Earth. The stations drifted as follows: "SP-6" 77°5' - 80°5' northern latitude; 150°-158° eastern longitude; "SP-7" 86°-86°5' northern latitude, 175°5' - 208°5' eastern longitude. Curves are plotted for the distribution of aurora polaris recurrence. Two nightfall and one early maxima were observed. The diurnal run of the recurrence of aurora polaris is in agreement with the diurnal run of magnetic activity and confirms the assumption on the existence of a second circumpolar zone of raised intensity and frequency of magnetic disturbances and aurora polaris. [Abstracter's note: Complete translation] L. Yerasova

Card 1/1

20382

S/058/61/000/003/026/027
A001/A001

3.1720

Translation from: Referativnyy zhurnal, Fizika, 1961, No. 3, p. 439, # 32h546

AUTHORS: Zhigalov, L. N.

TITLE: On the Correlation of Sun's Radio Emission With Geomagnetic Activity

PERIODICAL: "Solnechnyye dannyye", 1960, No. 5, pp. 69-73

TEXT: The author considers the problem of correlation between the Sun's radio emission (on the basis of data of sporadic radio emission published in the bulletin "Solnechnyye dannyye", June 1957 - November 1959) with magnetic disturbances. He processed statistically both the values of radio emission fluxes on various wavelengths of meter, decimeter and centimeter bands and the outbursts of various types. The best correlation with magnetic disturbances was detected in increases of fluxes and outbursts observed at wide frequency bands and of long duration. Recommendations on the optimum selection of radio data are given. Forecasting of magnetic storms calls for the employment of the solar radio emission index in addition to other indices. X

Translator's note: This is the full translation of the original Russian abstract, A. S.

Card 1/1

— FISHLOV, L. N.

PHASE I BOOK EXPLOITATION SOV/5744

Akademiya nauk SSSR. Mezhdunarodnyy komitet po provedeniyu
Mezhdunarodnogo geofizicheskogo goda. IV, razdel programmy MCHG:
Polyarnyye siyaniya i svecheniye nochnogo neba.

Issledovaniya polyarnykh siyaniy; sbornik statey (Investigations
of Auroras: Collected Articles. No. 4) Moscow, Izd-vo AN SSSR,
1960. 77 p. 2,000 copies printed.

Resp. Ed.: B. A. Bagaryatskiy, Candidate of Physics and Mathematics;
Ed.: Ya. I. Fel'dshteyn; Tech. Ed.: Ye. V. Makuni.

PURPOSE : This IGY publication is intended for geophysicists,
astrophysicists, and other scientists concerned with auroras
and related phenomena.

COVERAGE: The collection contains certain results of visual auroral
observations as well as of the photographing and spectrographing
of auroras made at Soviet stations during the IGY. No personali-
ties are mentioned. English abstracts and references follow
each article.

Card 1/3

Investigations of Auroras: Collected (Cont.)

SOV/5744

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